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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,309	11/14/2003	Victor A. Quattrini	TELE03-00004	1223
23990 DOCKET CLE	7590 08/15/2007	EXAMINER		
DOCKET CLERK P.O. DRAWER 800889 DALLAS, TX 75380			BEAUCHAINE, MARK J	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

·		Application No.	Applicant(s)		
		10/713,309	QUATTRINI ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Mark J. Beauchaine	3653		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	J. nely filed the mailting date of this communication. D (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 25 Ju	<u>ine 2007</u> .			
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Dispositi	ion of Claims				
4) ⊠ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) 1-13 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.					
Applicati	ion Papers				
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>14 November 2003</u> is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)□ objector drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).		
Priority ι	under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
	te of References Cited (PTO-892)	4) 🔲 Interview Summary			
3) Inform	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte		

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 13 is rejected under 35 U.S.C. 102(b) as being anticipated by Patent Number US 6,371,845 B1 by Ishida et al ("Ishida"). The coin dispenser disclosed by Ishida is operated by performing steps comprising establishing a selected height of stack of coins 41 correlated to a predetermined number of coins in said stack (see Figures 2 and 3), sensing the presence of said coins at said selecteded height (via sensor 23) and generating a signal in response thereto (see column 6, lines 47-56), storing the number of coins contained in a full stack of coins in response to said sensor signal (via RAM 13), and counting the number of dispensing operations and subtracting said number of dispensing operations from said stored number of coins in a stack to determine the number of coins remaining in the stack (see Figure 5).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-8 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patent Application Publication Number US 2004/0045787 A1 by Zimmerman ("Zimmerman") in view of Patent Number 4,371,783 by Grimmell et al ("Grimmell"). The coin presence sensor 5 disclosed by Zimmerman comprises at least one sensor 11 mounted on one side of receptacle 2 (see Figure 6), said at least one sensor further comprising a light transmitting device for transmitting light into said receptacle, wherein said light is reflected off said coins when present, and a light receiving device for receiving the reflected light when coins are present (see paragraph 0037). Said light receiving device generates a first signal when coins are present and a second signal when coins are not present (see paragraphs 0040 and 0043 and Figure 11).

Zimmerman further discloses a coin supply arranged in a stack of coins and said sensor being positioned at a predetermined height to indicate the presence of absence of a coin at said predetermined height. Said predetermined height is correlated to a predetermined value of coin (see paragraph 0034, lines 8-12), and is at the top, the

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bottom, or in between the top and bottom of a coin stack (see Figure 6) to determine filled, near depletion and depletion states, respectively.

Zimmerman fails to disclose a mask and access port. Grimmell teaches a sensor comprising light transmitting device 2a, light receiving device 5 and mask 2 mounted on said sensor via an access port and having apertures constructed therein aligned with said transmitting and receiving devices (see Figure 1) to isolate the receiving device from exposure to transmitted light prior to reflection for the purpose of evaluating the characteristics of an article. It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the mask of Grimmell into the sensor of Zimmerman for the purpose of evaluating the characteristics of an article.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Zimmerman in view of Grimmell as applied to claim 1 above, and further in view of

Patent Number 5,755,618 by Mothwurf ("Mothwurf"). Zimmerman fails to disclose a

photodiode transmitter, a phototransistor receptor and an access port. Mothwurf

teaches coin sensors 641 (see Figures 2 and 4) comprising photodiode transmitters and

phototransistor receptors (see claims 3 and 4, respectively) for the purpose of detecting
the presence or absence of coins within a receptacle. It would have been obvious to
one of ordinary skill in the art at the time the invention was made to incorporate the
photodiode transmitters and phototransistor receptors of Mothwurf into the sensor of
Zimmerman/Grimmell for the purpose of detecting the presence or absence of coins

within a receptacle.

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Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zimmerman in view of Grimmell as applied to claim 1 above, and further in view of Patent Number 4,746,319 by Zwieg et al ("Zwieg"). Zimmerman/Grimmell fails to disclose said first and second signals being different output voltages. Zwieg teaches coin-detecting light sensor 37 generating first and second signals that are different voltage outputs (see column 5, lines 3-45) for the purpose of detecting the presence of a coin. It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the first and second signals of Zwieg into the apparatus of Zimmerman/Grimmell for the purpose of detecting the presence of a coin.

Response to Arguments

Applicant's arguments filed 25 June 2007 have been fully considered but they are not persuasive. Regarding the Applicant's argument (page 8, line 1 through page 9, line 8) that Ishida fails to read on claim 13, Ishida senses coins at a selected height (i.e., full height) within said receptacle and thus reads on said claim which fails to include the limitation of detecting coins at any level.

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Regarding the Applicant's argument (page 11, line 3 through page 12, line 4) that Zimmerman fails to disclose a mask and access port, and that there is "no obvious reason" to incorporate the mask of Grimmell into the apparatus of Zimmerman, the Applicant's position that the light transmitter/receiver configuration of Zimmerman fails to short-circuit implies that a mask is inherent in said configuration. Since Zimmerman is silent as to a mask and Grimmell teaches a mask to prevent such a short-circuit of

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Regarding the Applicant's argument (page 13, line 9 through page 14, line 2) that the operation of the photodiode/photoreceptor configuration of Mothwurf is inapplicable the operation of the dispenser of claim 2, uses of photodiodes as sensor light sources in various configurations are well known in the coin handling/sensing art. Such uses include the transmission of directed light beams to a particular position within a coin dispensing device. Thus, said rejection of claim 2 is proper.

light, said combination of Zimmerman in view of Grimmell is proper.

Regarding the Applicant's argument (page 14, lines 3-14) that Zweig fails to disclose output voltages in a manner described in the Applicant's claim 9, Zweig teaches said output voltages resulting from a sensor detecting the presence or absence of a coin at a particular location within a coin processing device, and thus, read on the Applicant's claim.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark J. Beauchaine whose telephone number is (571)272-6934. The examiner can normally be reached on 8:00AM through 5:00PM Mondays through Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick H. Mackey can be reached on (571)272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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